

Data Path : Z:\HPCHEM1\BNA M\DATA\BM012518\
 Data File : BM013806.D
 Acq On : 25 Jan 2018 15:26
 Operator : SJ/JU
 Sample : J1222-06 30X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Jan 25 16:57:07 2018
 Quant Method : Z:\HPCHEM1\BNA M\Methods\SOM-EPA-BM011018.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Jan 25 16:56:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.59	152	134048	20.00	ng/ul	0.00
18) Naphthalene-d8	10.37	136	473636	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.24	164	278829	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.01	188	535003	20.00	ng/ul	0.01
75) Chrysene-d12	21.20	240	555586	20.00	ng/ul	0.00
83) Perylene-d12	23.40	264	573318	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.16	96	236	0.07	ng/uL	0.00
5) Phenol-d5	6.80	99	6100	0.59	ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	6.94	67	5455	0.87	ng/ul	0.00
9) 2-Chlorophenol-d4	7.13	132	5551	0.66	ng/ul	0.00
13) 4-Methylphenol-d8	8.30	113	215	0.03	ng/ul	-0.01
19) Nitrobenzene-d5	8.76	128	3541	0.96	ng/ul	0.00
22) 2-Nitrophenol-d4	9.48	143	3065	0.79	ng/ul	0.02
26) 2,4-Dichlorophenol-d3	10.01	165	1302	0.17	ng/ul	0.00
29) 4-Chloroaniline-d4	10.53	131	743	0.11	ng/ul	0.00
43) Dimethylphthalate-d6	13.67	166	22172	0.96	ng/ul	0.00
46) Acenaphthylene-d8	13.94	160	23897	0.82	ng/ul	0.00
51) 4-Nitrophenol-d4	14.47	143	4345	1.16	ng/ul	0.00
57) Fluorene-d10	15.25	176	17911	0.89	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.40	200	939	0.29	ng/ul	0.01
70) Anthracene-d10	17.10	188	23940	0.92	ng/ul	0.00
76) Pyrene-d10	19.40	212	26550	1.03	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.26	264	23827	0.90	ng/ul	0.00

Target Compounds

					Ovalue
17) Hexachloroethane	8.69	117	8243	2.026	ng/ul# 1
28) Naphthalene	10.42	128	1838251	78.013	ng/ul 100
30) 4-Chloroaniline	10.49	127	8476	1.313	ng/ul# 68
32) Caprolactam	11.39	113	41014	20.392	ng/ul 83
34) 2-Methylnaphthalene	12.05	142	1020522	58.090	ng/ul 97
40) 1,1'-Biphenyl	13.07	154	347162	14.958	ng/ul 97
47) Acenaphthylene	13.97	152	32169	1.200	ng/ul# 39
49) Acenaphthene	14.32	153	1148863	61.867	ng/ul 98
50) 2,4-Dinitrophenol	14.39	184	4066	1.620	ng/ul# 1
53) Dibenzofuran	14.65	168	1264778	45.274	ng/ul 98
55) 2,3,4,6-Tetrachlorophenol	14.89	232	394461	67.393	ng/ul# 93
58) Fluorene	15.30	166	1106760	48.365	ng/ul 99
64) N-Nitrosodiphenylamine	15.39	169	21822	1.387	ng/ul 91
68) Pentachlorophenol	16.68	266	7828654	2165.958	ng/ul 98
69) Phenanthrene	17.06	178	6179802	207.804	ng/ul 99
71) Anthracene	17.14	178	991764	32.333	ng/ul 99
72) Carbazole	17.42	167	478793	18.910	ng/ul 100
74) Fluoranthene	19.07	202	3987193	112.320	ng/ul# 96
77) Pyrene	19.43	202	2791341	82.643	ng/ul# 94
80) Benzo(a)anthracene	21.19	228	509045	15.163	ng/ul 97
82) Chrysene	21.24	228	458786	14.897	ng/ul 95
85) Benzo(b)fluoranthene	22.74	252	320931	9.115	ng/ul# 92
86) Benzo(k)fluoranthene	22.79	252	99652	2.928	ng/ul# 90

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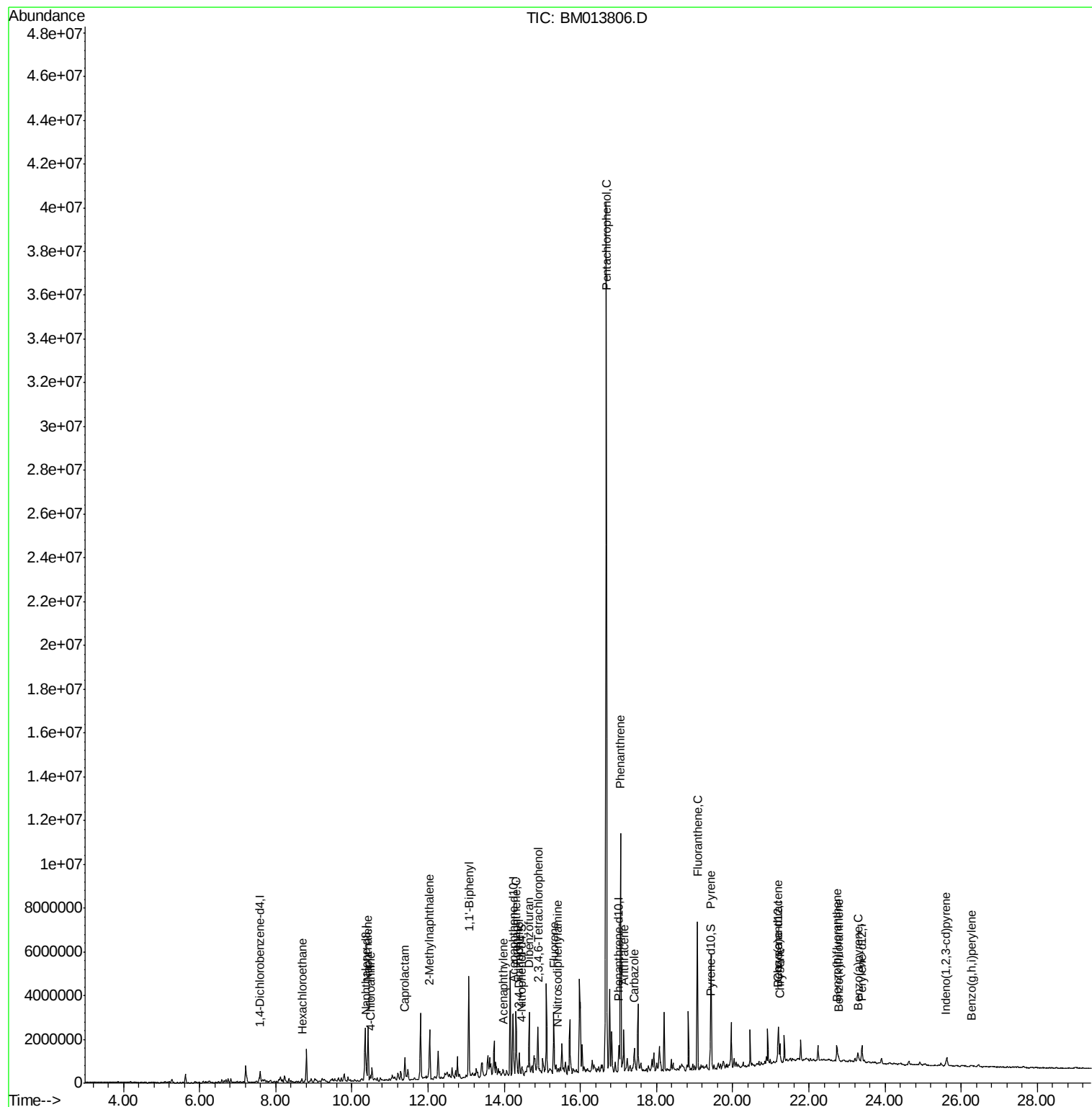
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo(a)pyrene	23.30	252	164710	4.952	ng/ul#	98
89) Indeno(1,2,3-cd)pyrene	25.60	276	64598	1.645	ng/ul#	83
91) Benzo(g,h,i)perylene	26.26	276	51803	1.603	ng/ul#	88

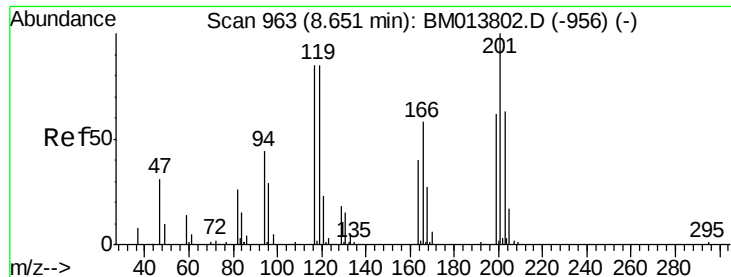
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#17

Hexachloroethane

Concen: 2.026 ng/ul

RT: 8.69 min Scan# 969

Delta R.T. 0.03 min

Lab File: BM013806.D

Acq: 25 Jan 2018 15:26

Instrument :

BNA_M

ClientSampleId :

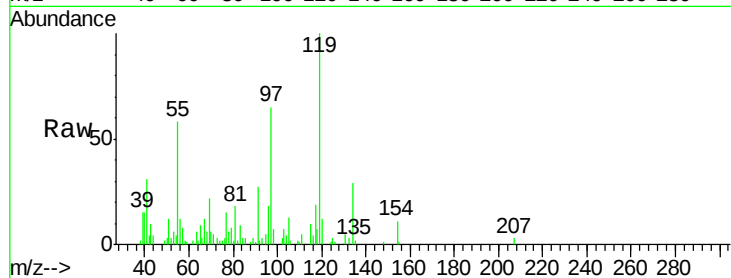
Tot Ion:117 Resp: 8243

Ion Ratio Lower Upper

117 100

201 0.0 111.6 167.4#

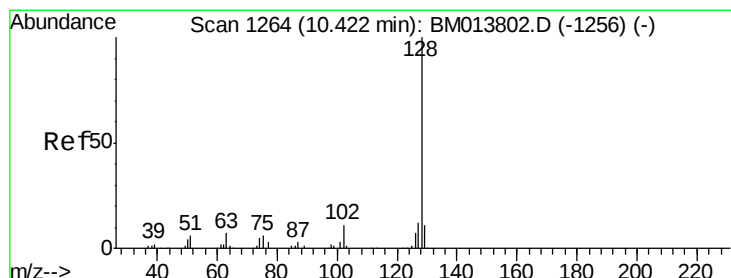
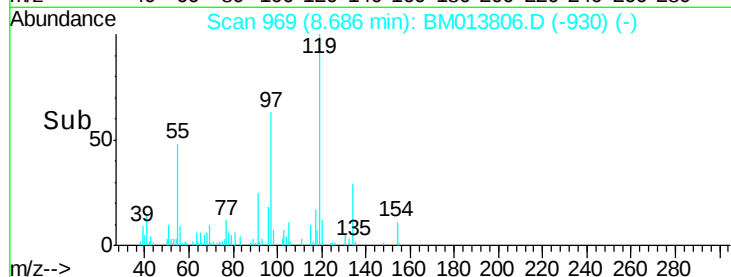
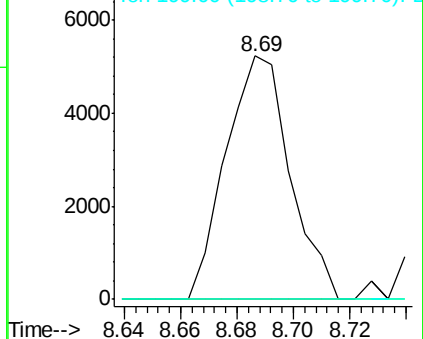
199 0.0 67.8 101.6#



Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E



#28

Naphthalene

Concen: 78.013 ng/ul

RT: 10.42 min Scan# 1264

Delta R.T. -0.00 min

Lab File: BM013806.D

Acq: 25 Jan 2018 15:26

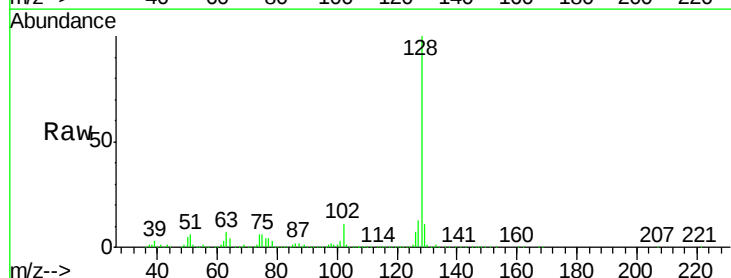
Tgt Ion:128 Resp: 1838251

Ion Ratio Lower Upper

128 100

129 11.1 8.8 13.2

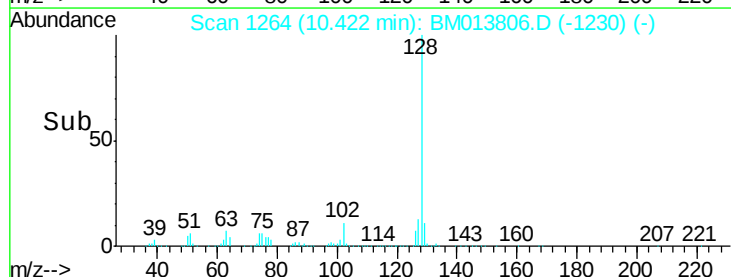
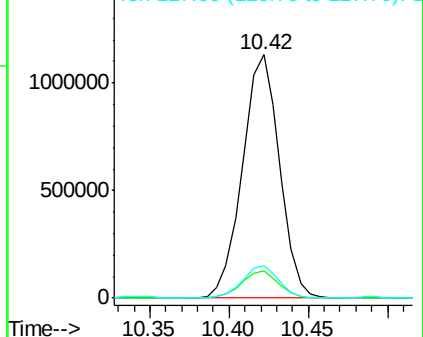
127 13.2 10.6 16.0

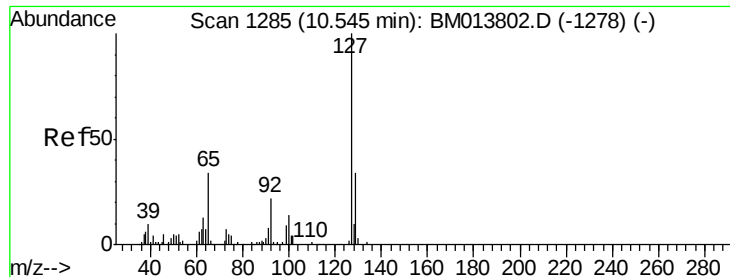


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

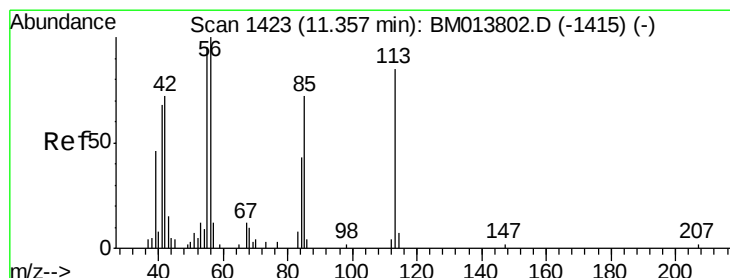
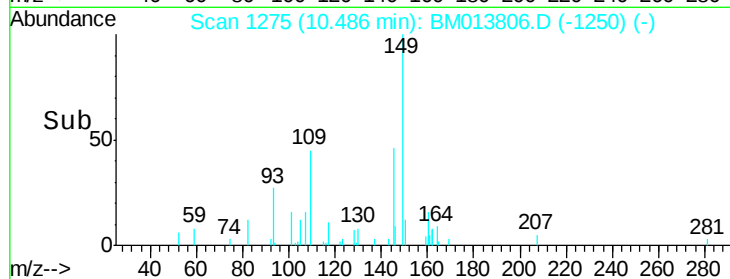
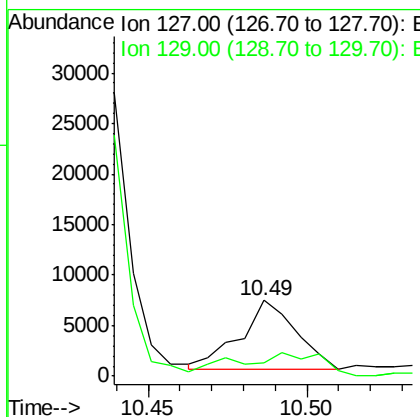
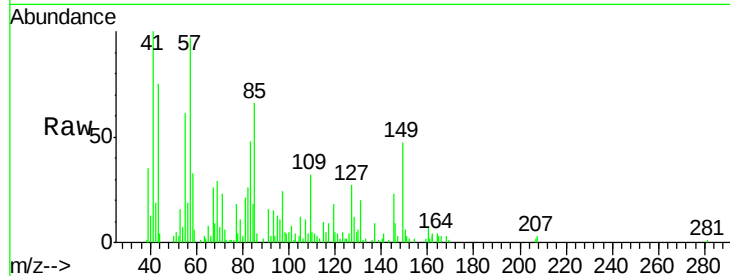




#30
4-Chloroaniline
Concen: 1.313 ng/ul
RT: 10.49 min Scan# 1275
Delta R.T. -0.05 min
Lab File: BM013806.D
Acq: 25 Jan 2018 15:26

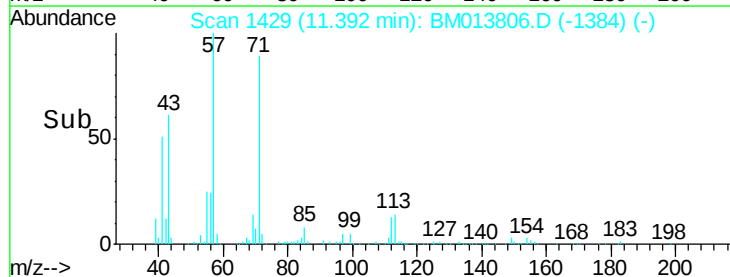
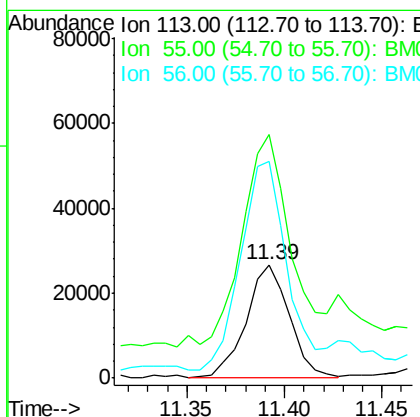
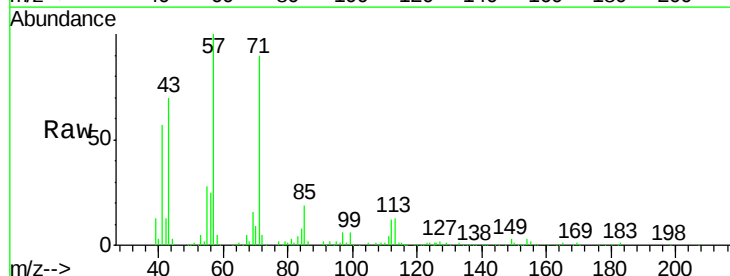
Instrument :
BNA_M
ClientSampleId :

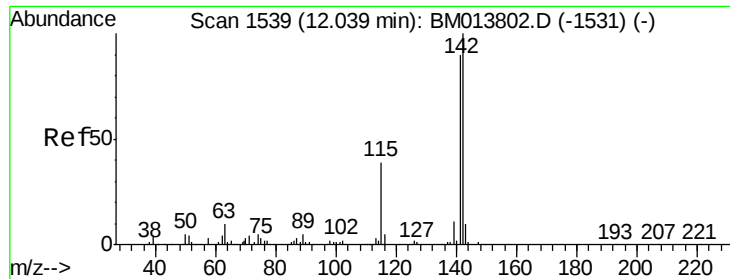
Tot Ion:127 Resp: 8476
Ion Ratio Lower Upper
127 100
129 17.0 28.4 42.6#



#32
Caprolactam
Concen: 20.392 ng/ul
RT: 11.39 min Scan# 1429
Delta R.T. 0.06 min
Lab File: BM013806.D
Acq: 25 Jan 2018 15:26

Tgt Ion:113 Resp: 41014
Ion Ratio Lower Upper
113 100
55 214.8 208.0 312.0
56 191.0 160.0 240.0

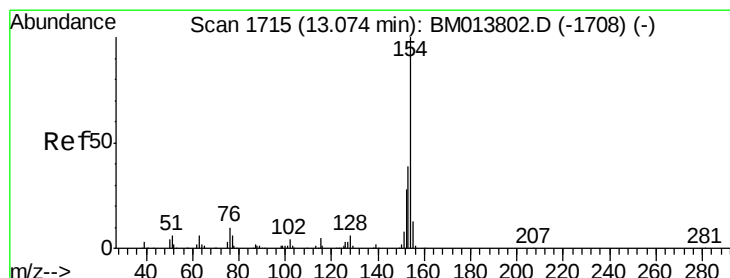
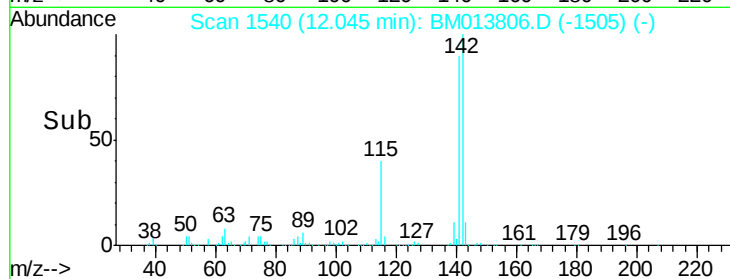
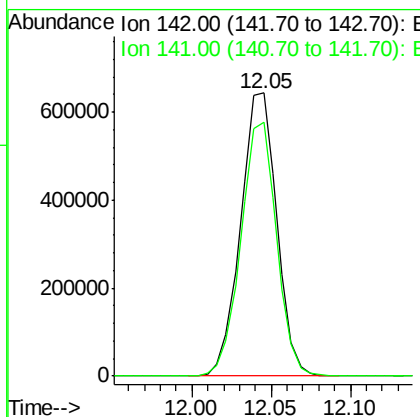
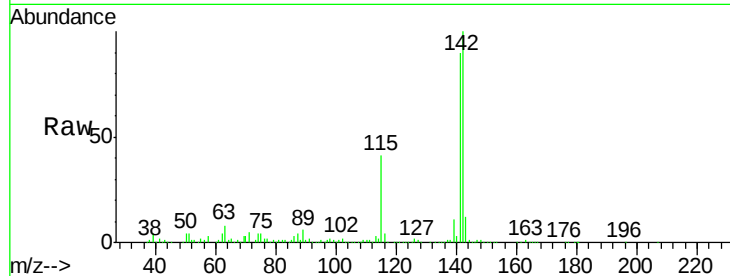




#34
 2-Methylnaphthalene
 Concen: 58.090 ng/ul
 RT: 12.05 min Scan# 1540
 Delta R.T. 0.01 min
 Lab File: BM013806.D
 Acq: 25 Jan 2018 15:26

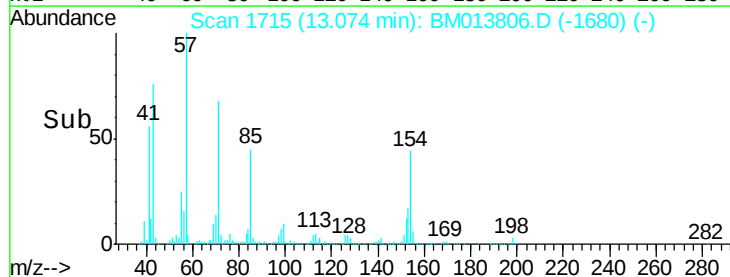
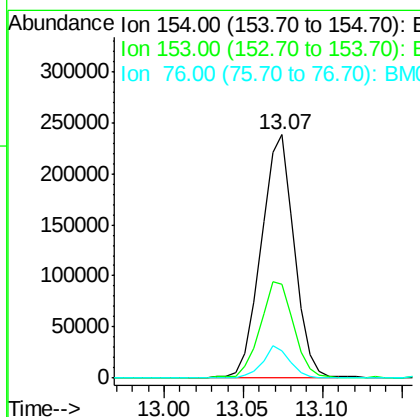
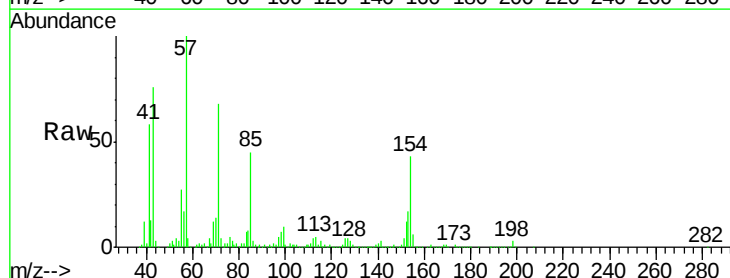
Instrument :
 BNA_M
 ClientSampleId :

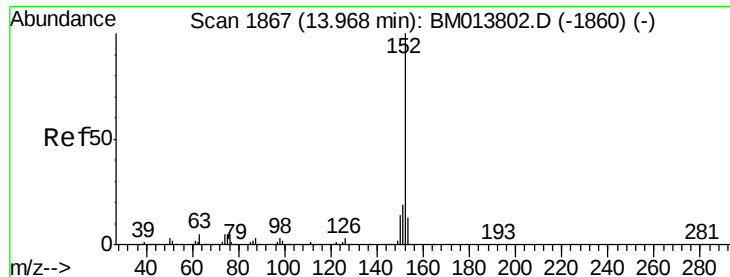
Tot Ion:142 Resp: 1020522
 Ion Ratio Lower Upper
 142 100
 141 89.9 74.1 111.1



#40
 1,1'-Biphenyl
 Concen: 14.958 ng/ul
 RT: 13.07 min Scan# 1715
 Delta R.T. 0.01 min
 Lab File: BM013806.D
 Acq: 25 Jan 2018 15:26

Tgt Ion:154 Resp: 347162
 Ion Ratio Lower Upper
 154 100
 153 38.6 32.6 48.8
 76 11.1 8.5 12.7





#47

Acenaphthylene

Concen: 1.200 ng/ul

RT: 13.97 min Scan# 1867

Delta R.T. 0.01 min

Lab File: BM013806.D

Acq: 25 Jan 2018 15:26

Instrument :

BNA_M

ClientSampleId :

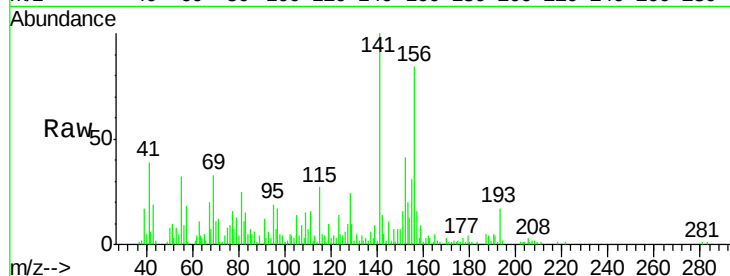
Tot Ion:152 Resp: 32169

Ion Ratio Lower Upper

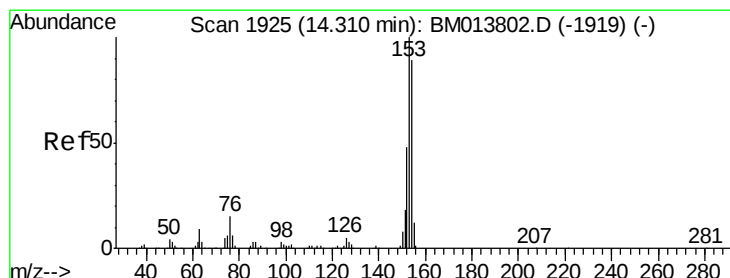
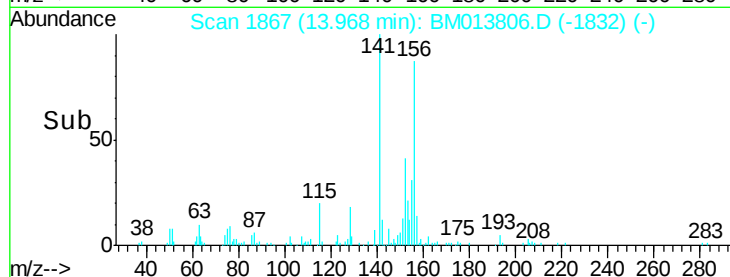
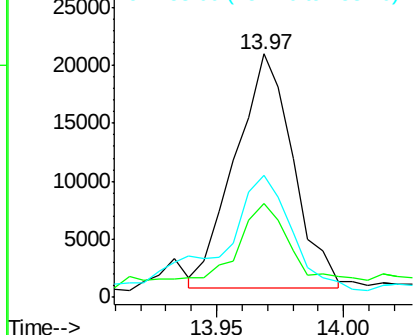
152 100

151 38.6 16.3 24.5#

153 50.3 10.2 15.4#



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Acenaphthene

Concen: 61.867 ng/ul

RT: 14.32 min Scan# 1926

Delta R.T. 0.01 min

Lab File: BM013806.D

Acq: 25 Jan 2018 15:26

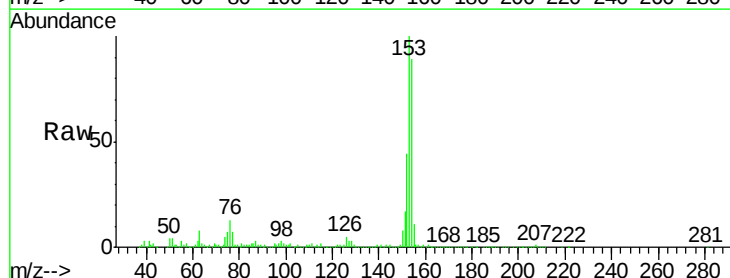
Tgt Ion:153 Resp: 1148863

Ion Ratio Lower Upper

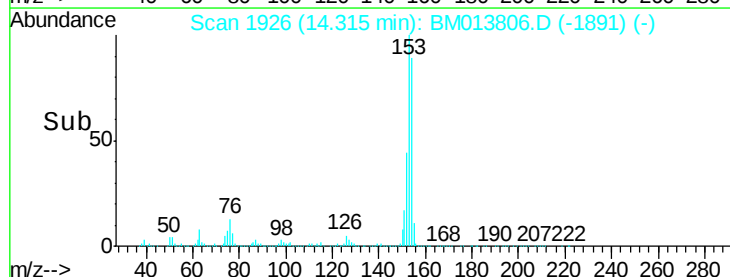
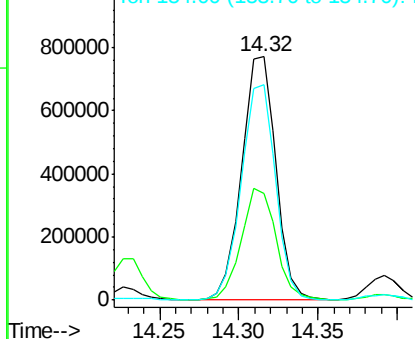
153 100

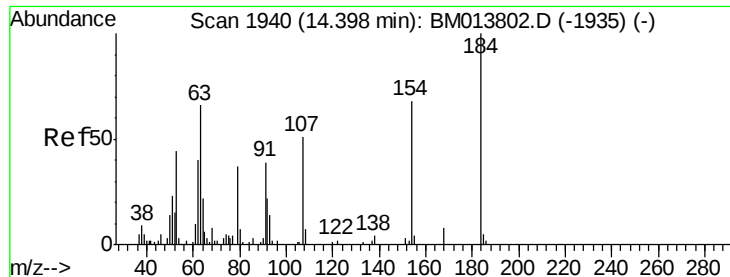
152 44.1 37.6 56.4

154 88.7 70.4 105.6



Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E

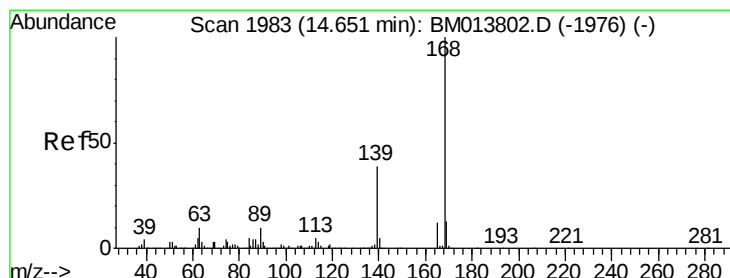
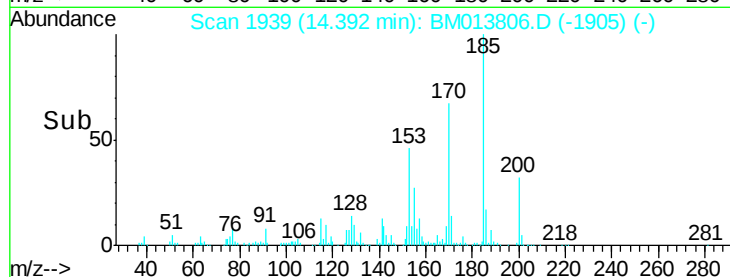
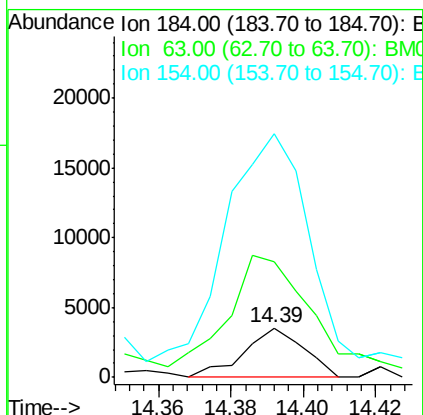
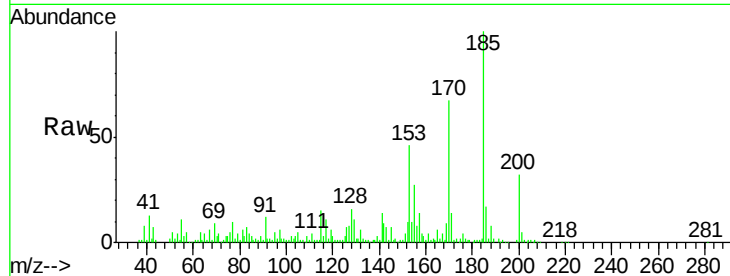




#50
2,4-Dinitrophenol
Concen: 1.620 ng/ul
RT: 14.39 min Scan# 1939
Delta R.T. -0.00 min
Lab File: BM013806.D
Acq: 25 Jan 2018 15:26

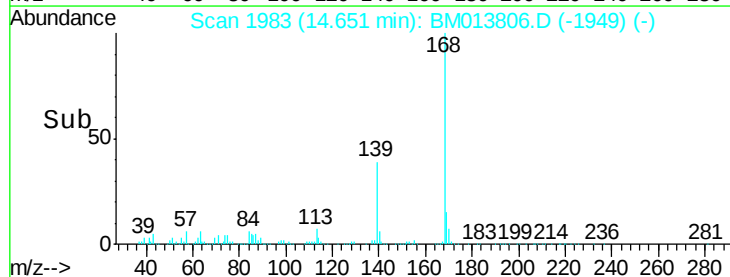
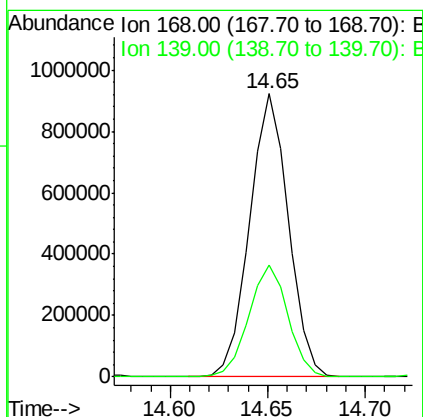
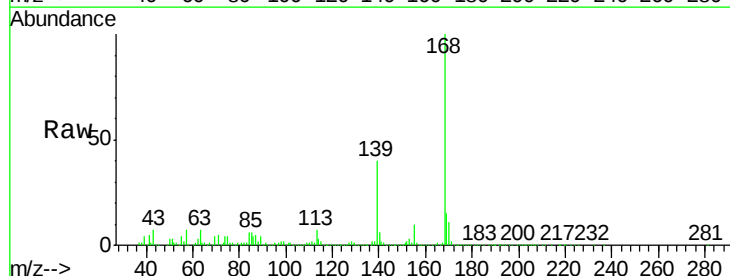
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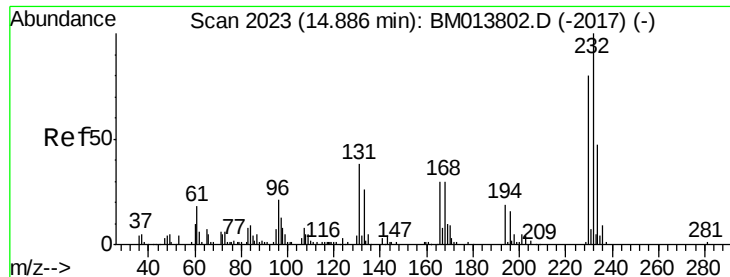
Tot Ion:184 Resp: 4066
Ion Ratio Lower Upper
184 100
63 233.8 50.1 75.1#
154 492.5 54.5 81.7#



#53
Dibenzofuran
Concen: 45.274 ng/ul
RT: 14.65 min Scan# 1983
Delta R.T. -0.00 min
Lab File: BM013806.D
Acq: 25 Jan 2018 15:26

Tgt Ion:168 Resp: 1264778
Ion Ratio Lower Upper
168 100
139 39.6 30.8 46.2





#55

2,3,4,6-Tetrachlorophenol

Concen: 67.393 ng/ul

RT: 14.89 min Scan# 2023

Delta R.T. 0.01 min

Lab File: BM013806.D

Acq: 25 Jan 2018 15:26

Instrument :

BNA_M

ClientSampleId :

Tot Ion:232 Resp: 394461

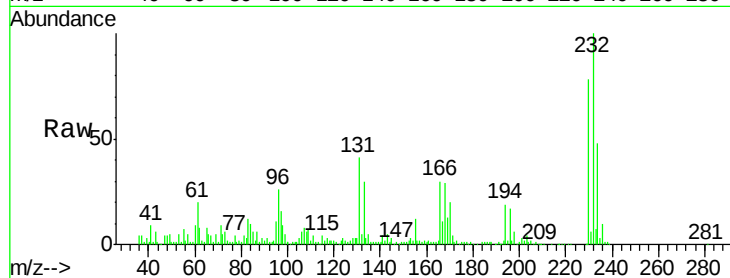
Ion Ratio Lower Upper

232 100

131 40.9 29.0 43.4

130 3.1 2.0 3.0#

166 30.1 21.4 32.2

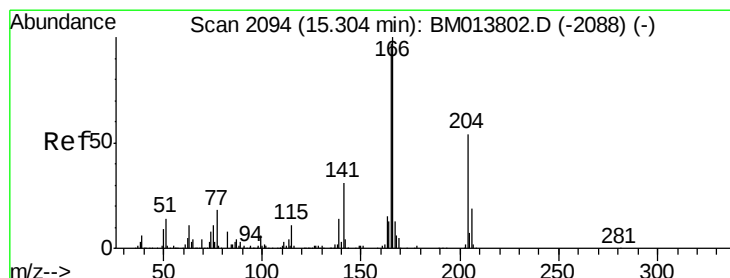
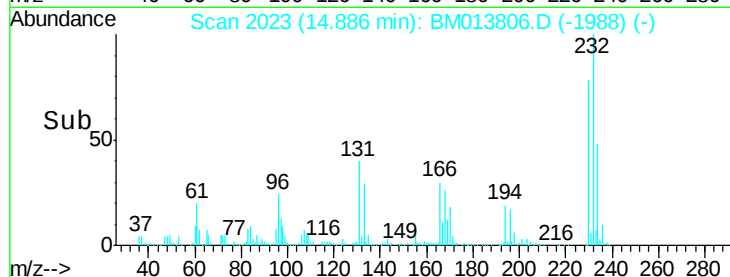
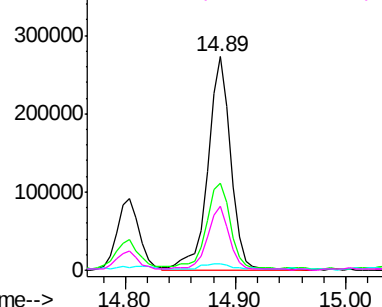


Abundance Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E



#58

Fluorene

Concen: 48.365 ng/ul

RT: 15.30 min Scan# 2094

Delta R.T. -0.00 min

Lab File: BM013806.D

Acq: 25 Jan 2018 15:26

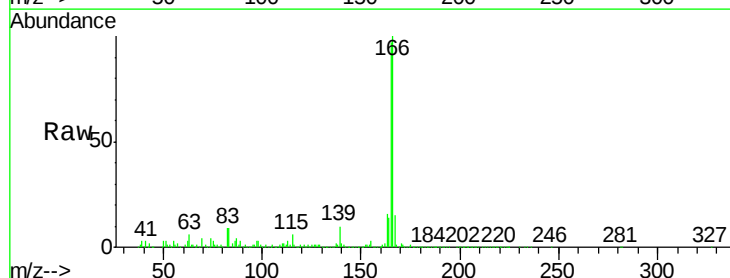
Tgt Ion:166 Resp: 1106760

Ion Ratio Lower Upper

166 100

165 97.1 77.9 116.9

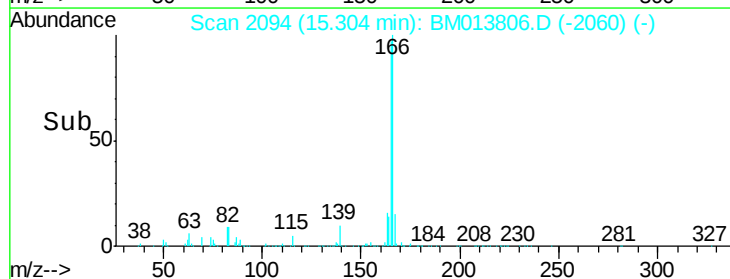
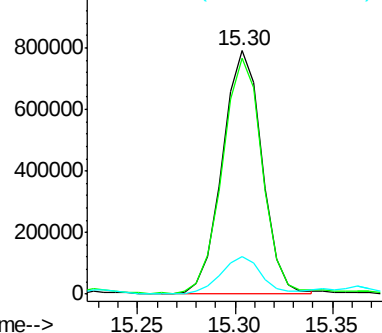
167 15.4 10.6 16.0

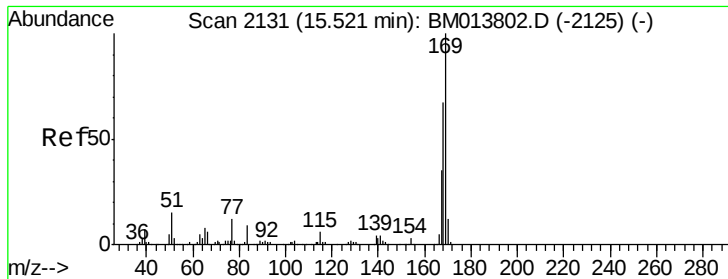


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



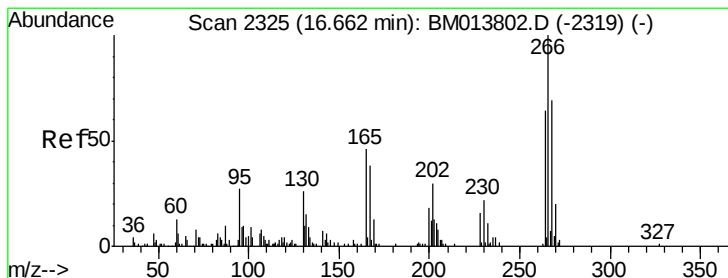
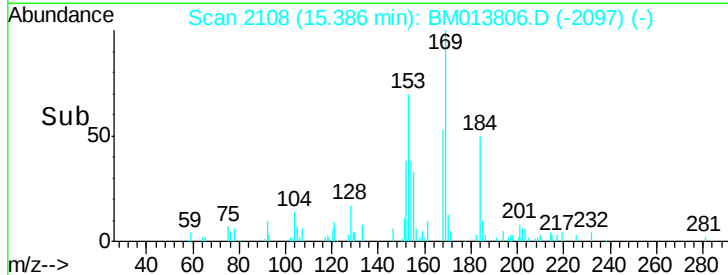
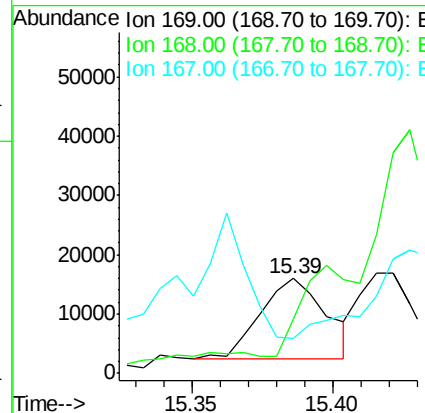
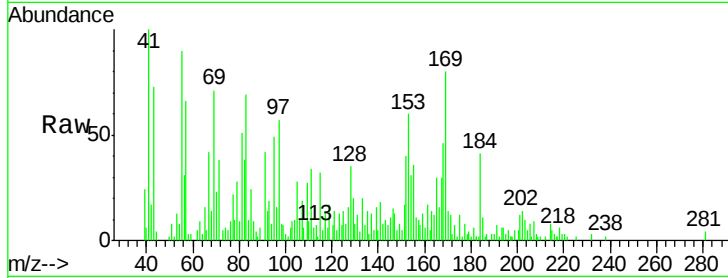


#64

N-Nitrosodiphenylamine
 Concen: 1.387 ng/ul
 RT: 15.39 min Scan# 2108
 Delta R.T. -0.14 min
 Lab File: BM013806.D
 Acq: 25 Jan 2018 15:26

Instrument :
 BNA_M
 ClientSampleId :

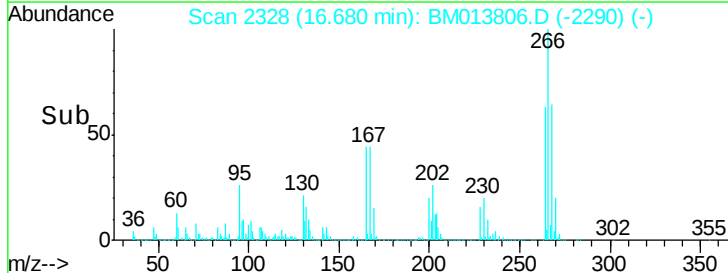
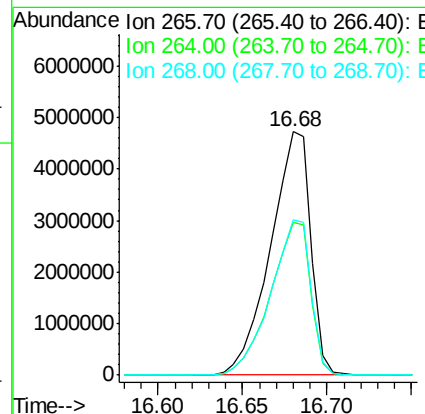
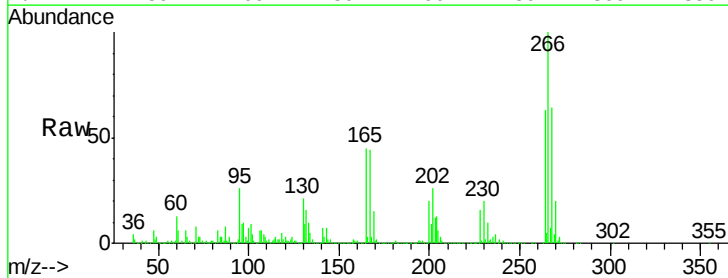
Tot Ion:169 Resp: 21822
 Ion Ratio Lower Upper
 169 100
 168 57.5 54.0 81.0
 167 37.1 29.1 43.7

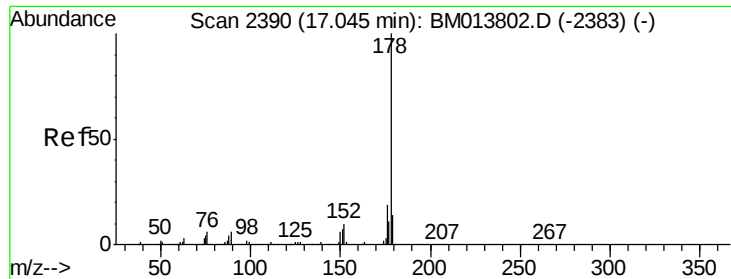


#68

Pentachlorophenol
 Concen: 2165.958 ng/ul
 RT: 16.68 min Scan# 2328
 Delta R.T. 0.02 min
 Lab File: BM013806.D
 Acq: 25 Jan 2018 15:26

Tgt Ion:266 Resp: 7828654
 Ion Ratio Lower Upper
 266 100
 264 62.5 49.3 73.9
 268 63.9 52.6 78.8





#69

Phenanthrene

Concen: 207.804 ng/ul

RT: 17.06 min Scan# 2392

Delta R.T. 0.01 min

Lab File: BM013806.D

Acq: 25 Jan 2018 15:26

Instrument :

BNA_M

ClientSampleId :

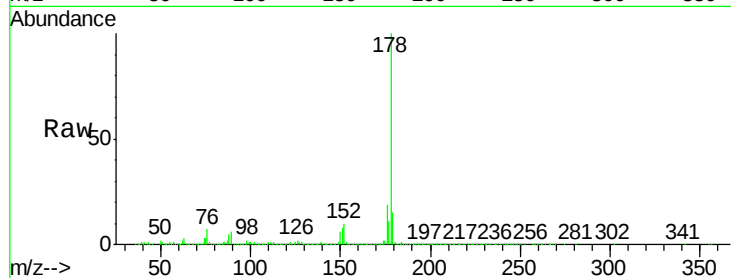
Tot Ion:178 Resp: 6179802

Ion Ratio Lower Upper

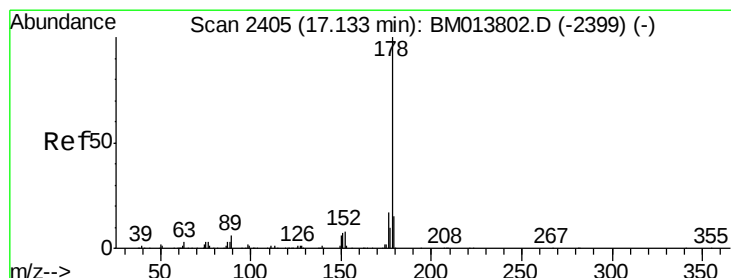
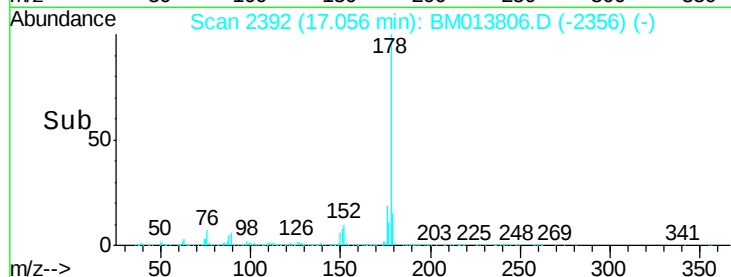
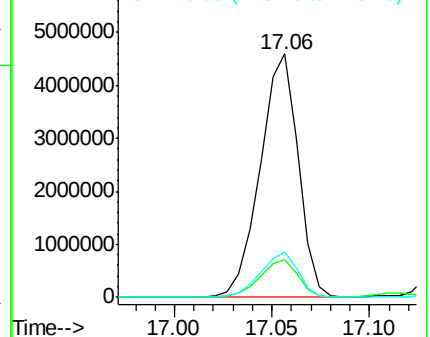
178 100

179 15.2 12.6 19.0

176 18.8 14.9 22.3



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 179.00 (178.70 to 179.70): E
Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 32.333 ng/ul

RT: 17.14 min Scan# 2406

Delta R.T. 0.01 min

Lab File: BM013806.D

Acq: 25 Jan 2018 15:26

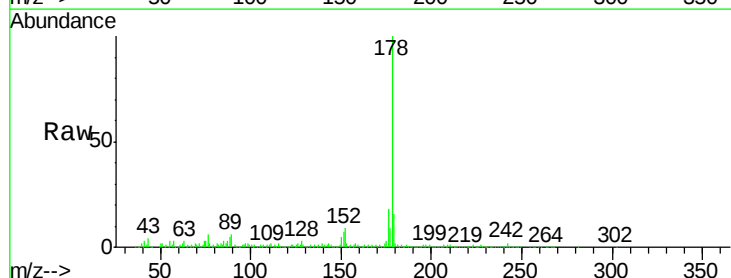
Tgt Ion:178 Resp: 991764

Ion Ratio Lower Upper

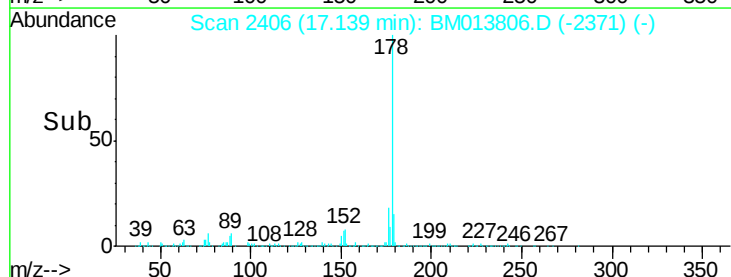
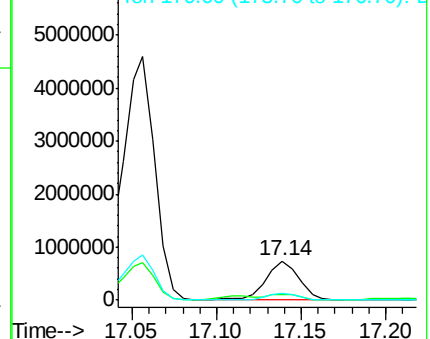
178 100

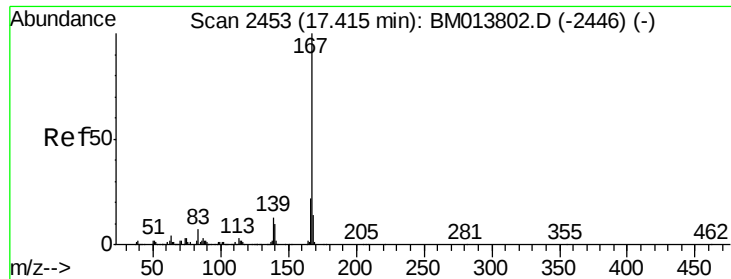
179 15.6 11.7 17.5

176 17.9 14.6 21.8



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 179.00 (178.70 to 179.70): E
Ion 176.00 (175.70 to 176.70): E





#72

Carbazole

Concen: 18.910 ng/ul

RT: 17.42 min Scan# 2453

Delta R.T. 0.01 min

Lab File: BM013806.D

Acq: 25 Jan 2018 15:26

Instrument :

BNA_M

ClientSampleId :

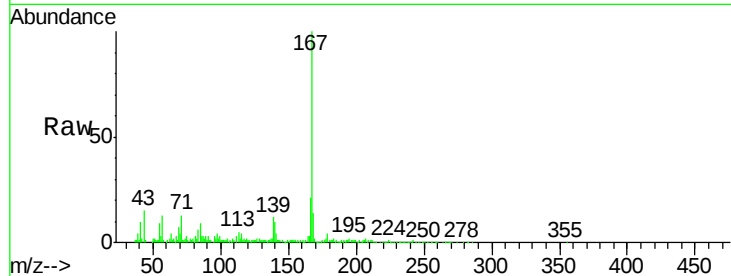
Tot Ion:167 Resp: 478793

Ion Ratio Lower Upper

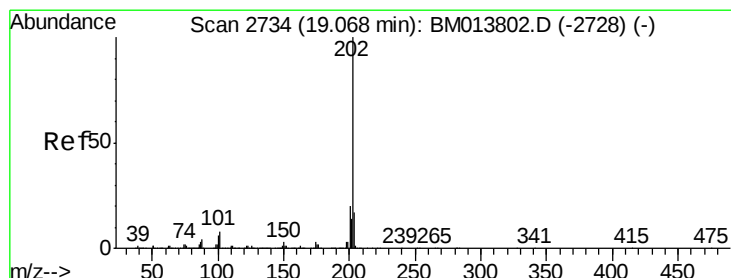
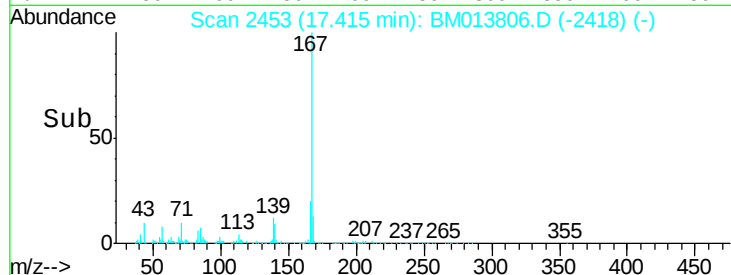
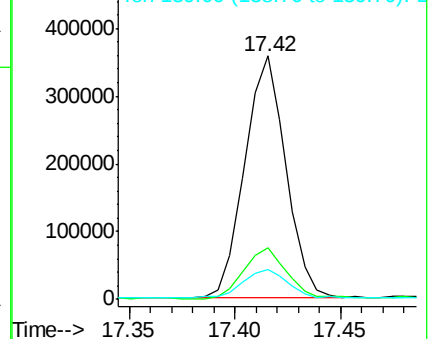
167 100

166 21.1 17.1 25.7

139 12.4 10.0 15.0



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 112.320 ng/ul

RT: 19.07 min Scan# 2735

Delta R.T. 0.01 min

Lab File: BM013806.D

Acq: 25 Jan 2018 15:26

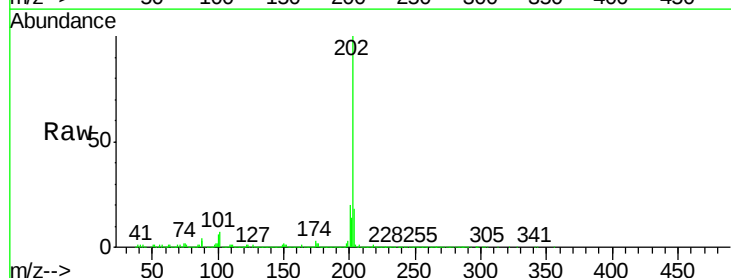
Tgt Ion:202 Resp: 3987193

Ion Ratio Lower Upper

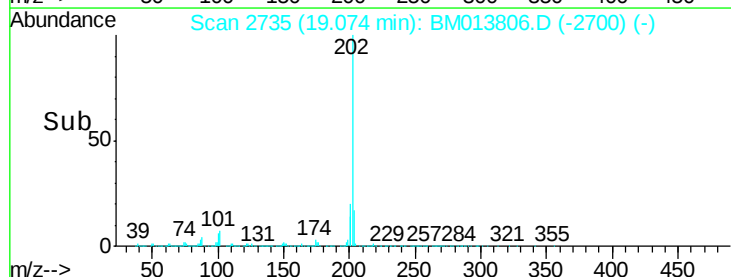
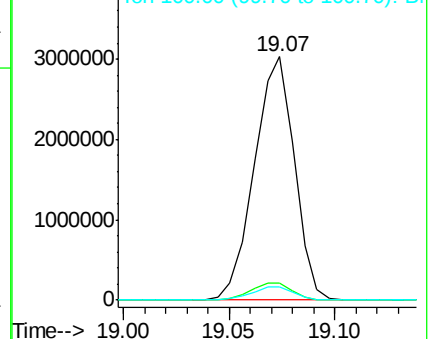
202 100

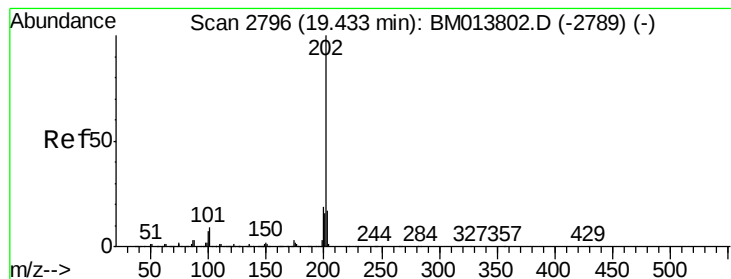
101 7.1 4.6 7.0#

100 5.7 3.4 5.2#



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B





#77

Pvrene

Concen: 82.643 ng/ul

RT: 19.43 min Scan# 2796

Delta R.T. -0.00 min

Lab File: BM013806.D

Acq: 25 Jan 2018 15:26

Instrument :

BNA_M

ClientSampleId :

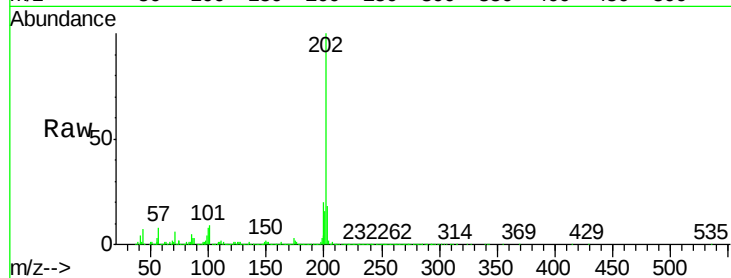
Tot Ion:202 Resp: 2791341

Ion Ratio Lower Upper

202 100

101 8.9 5.1 7.7#

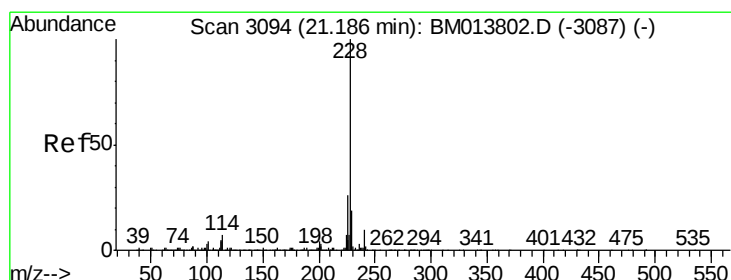
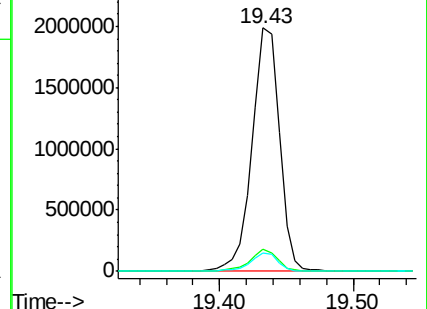
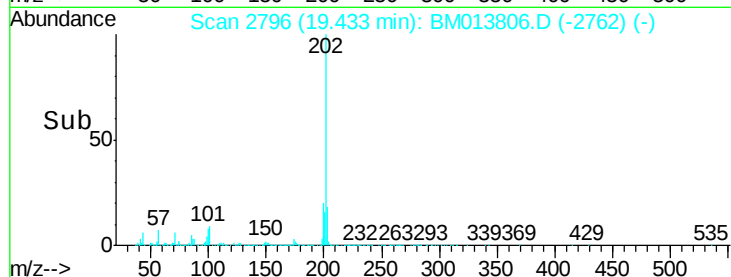
100 7.7 4.9 7.3#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#80

Benzo(a)anthracene

Concen: 15.163 ng/ul

RT: 21.19 min Scan# 3094

Delta R.T. -0.00 min

Lab File: BM013806.D

Acq: 25 Jan 2018 15:26

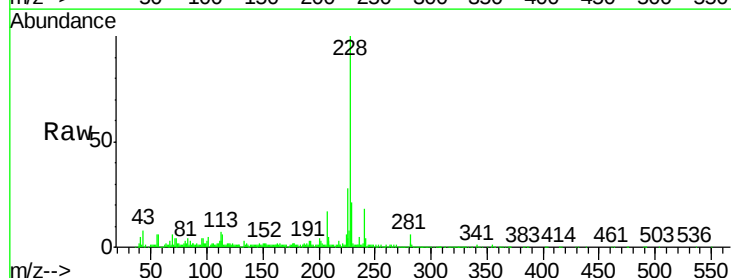
Tgt Ion:228 Resp: 509045

Ion Ratio Lower Upper

228 100

229 21.2 15.4 23.0

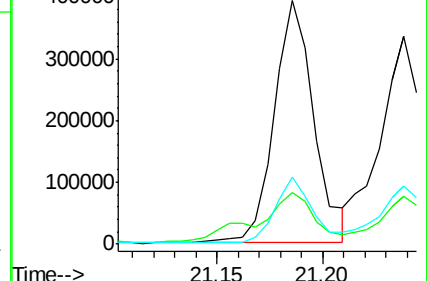
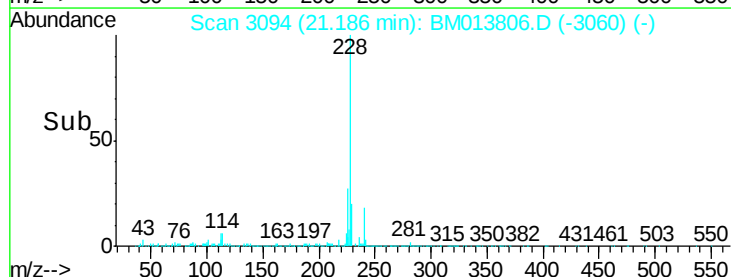
226 27.6 21.4 32.0

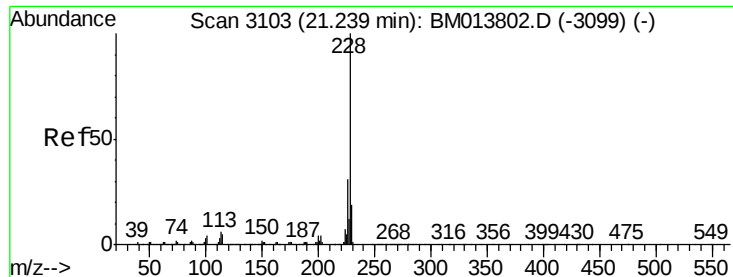


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#82

Chrysene

Concen: 14.897 ng/ul

RT: 21.24 min Scan# 3103

Delta R.T. -0.00 min

Lab File: BM013806.D

Acq: 25 Jan 2018 15:26

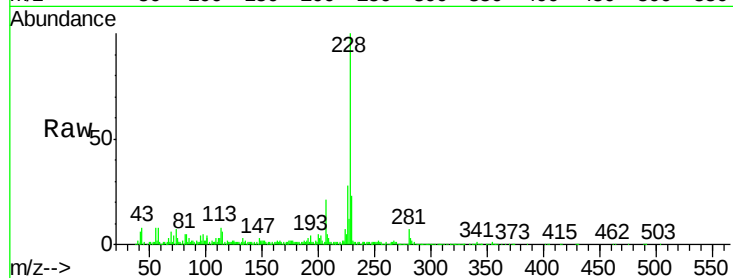
Instrument :

BNA_M

ClientSampleId :

Tot Ion:228 Resp: 458786

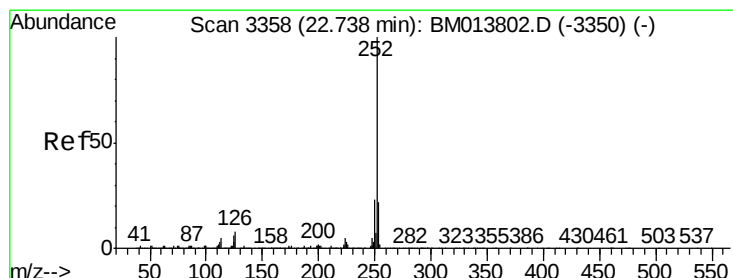
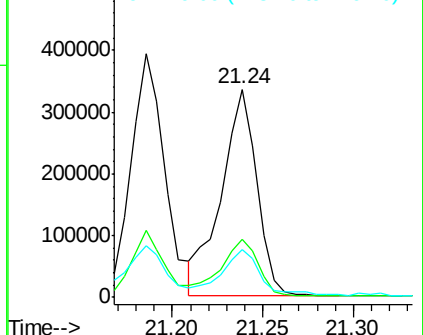
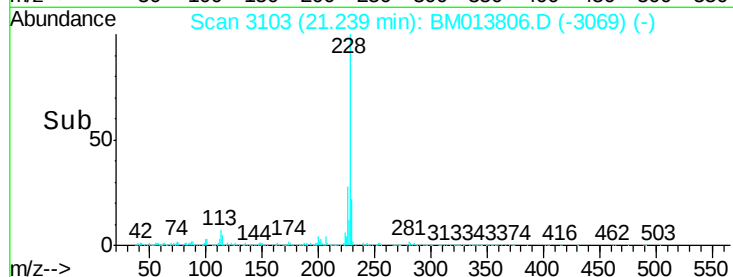
Ion	Ratio	Lower	Upper
228	100		
226	27.9	23.4	35.2
229	23.0	15.5	23.3



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Benzo(b)fluoranthene

Concen: 9.115 ng/ul

RT: 22.74 min Scan# 3359

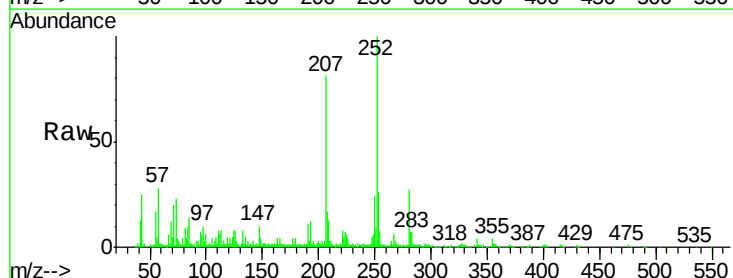
Delta R.T. 0.01 min

Lab File: BM013806.D

Acq: 25 Jan 2018 15:26

Tgt Ion:252 Resp: 320931

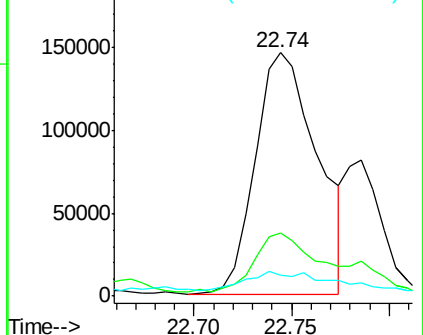
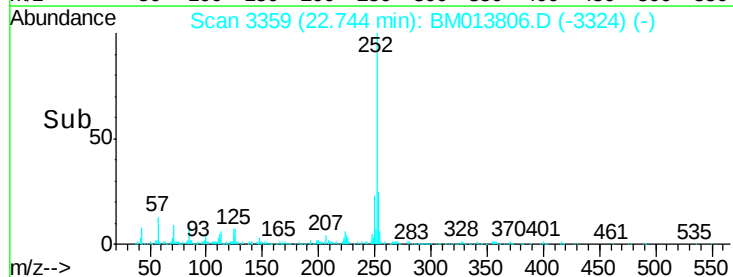
Ion	Ratio	Lower	Upper
252	100		
253	25.8	17.9	26.9
125	8.5	3.6	5.4

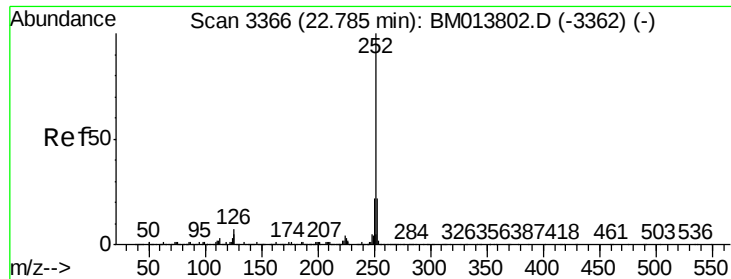


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

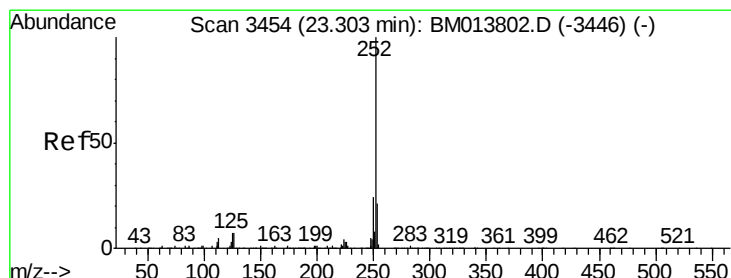
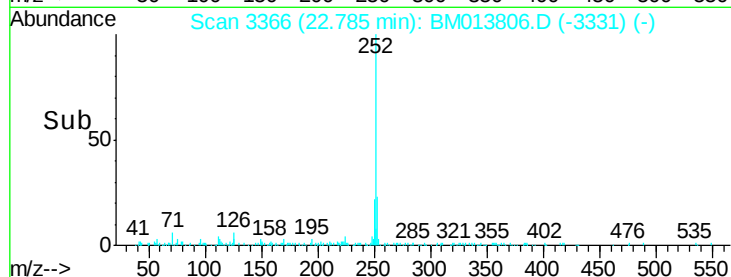
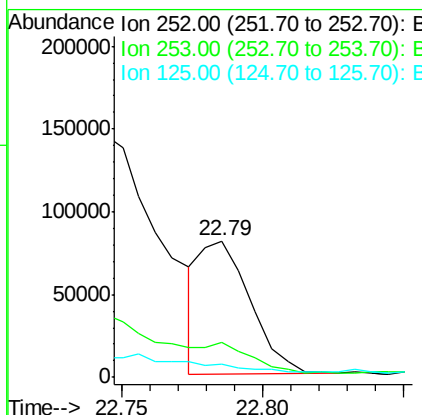
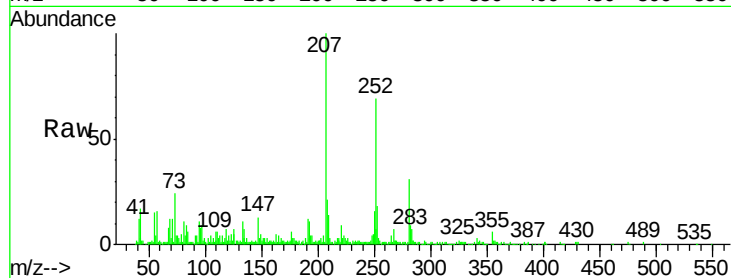




#86
Benzo(k)fluoranthene
Concen: 2.928 ng/ul
RT: 22.79 min Scan# 3366
Delta R.T. 0.01 min
Lab File: BM013806.D
Acq: 25 Jan 2018 15:26

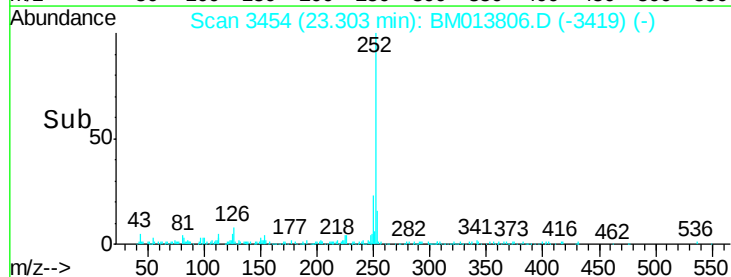
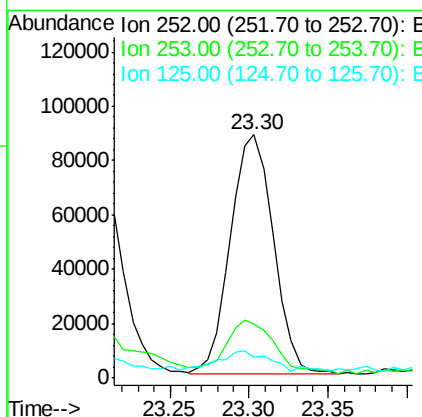
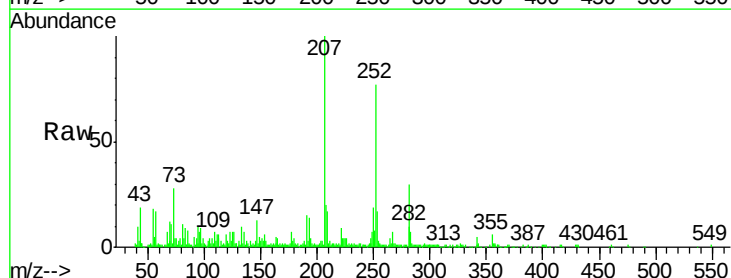
Instrument :
BNA_M
ClientSampleId :

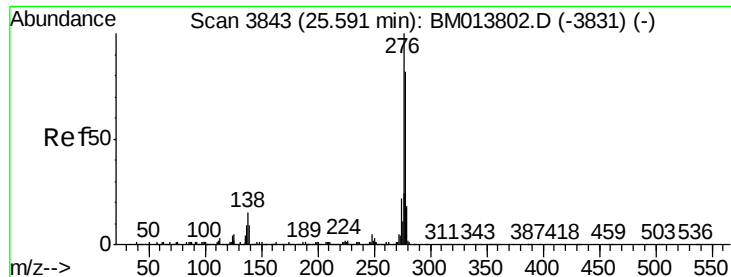
Tot Ion:252 Resp: 99652
Ion Ratio Lower Upper
252 100
253 25.8 17.1 25.7#
125 9.5 3.4 5.2#



#88
Benzo(a)pyrene
Concen: 4.952 ng/ul
RT: 23.30 min Scan# 3454
Delta R.T. 0.01 min
Lab File: BM013806.D
Acq: 25 Jan 2018 15:26

Tgt Ion:252 Resp: 164710
Ion Ratio Lower Upper
252 100
253 22.4 18.2 27.2
125 8.7 4.0 6.0#



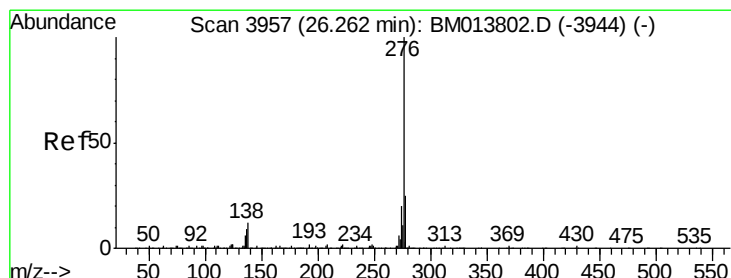
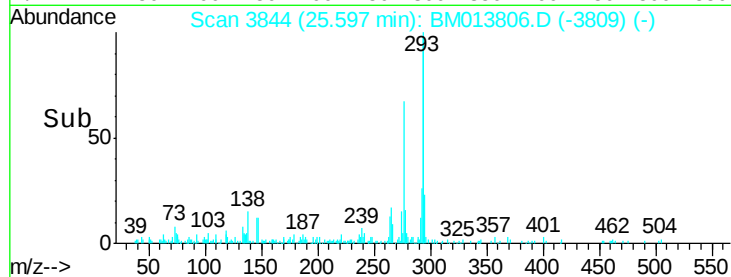
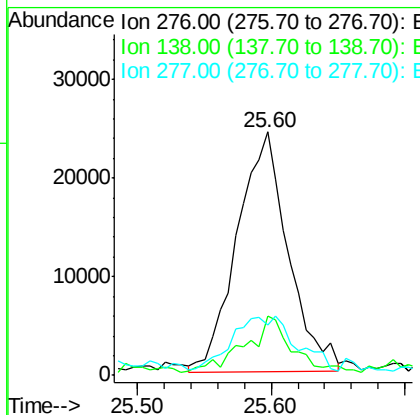
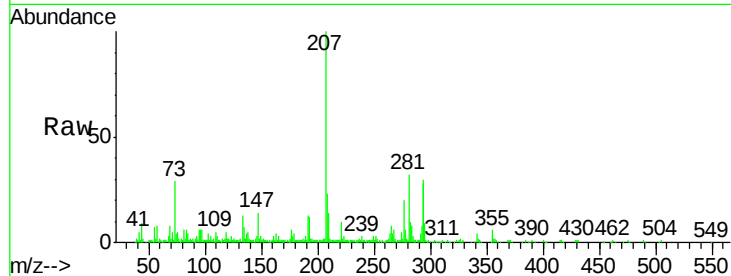


#89

Indeno(1,2,3-cd)pyrene
Concen: 1.645 ng/ul
RT: 25.60 min Scan# 3844
Delta R.T. 0.01 min
Lab File: BM013806.D
Acq: 25 Jan 2018 15:26

Instrument :
BNA_M
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	24.6	9.3	13.9#
277	20.6	19.9	29.9



#91

Benzo(g,h,i)perylene
Concen: 1.603 ng/ul
RT: 26.26 min Scan# 3957
Delta R.T. 0.01 min
Lab File: BM013806.D
Acq: 25 Jan 2018 15:26

Tgt Ion	Ratio	Lower	Upper
276	100		
138	17.8	8.5	12.7#
277	19.4	18.6	28.0

